

CLAIMS

1. A method of filtering messages, comprising:
receiving a text-based filter string representing filter criteria;
converting the text-based filter string directly to machine-language filter
code once for use by a code section of a computer program; and
5 using the code section, executing the machine-language filter code to
accept or discard multiple messages received by or residing within one or more
software components within the computer program based on the filter criteria.

10 2. The method of claim 1, wherein executing the machine-
language filter code is performed by a central processing unit running the computer
program.

15 3. The method of claim 2, wherein the computer program is a
JavaTM virtual machine.

4. The method of claim 1, wherein the machine-language filter
code is directly executable by the central processing unit.

20 5. The method of claim 4, wherein the machine-language filter
code is a JavaTM class.

6. The method of claim 1, wherein the text-based filter string is
human-readable.

25 7. The method of claim 6, wherein the text-based filter string is
formatted according to a conditional expression syntax.

30 8. A system of filtering information transmitted from one or more
software components within a computer program to one or more other software

components within another computer program or the same computer program, comprising:

- a filter generator configured to receive a text-based filter string representing filter criteria;
- 5 a machine language generator coupled with the filter generator and being configured to convert the text-based filter string directly to machine-language filter code; and
- 10 a processor for executing the machine-language filter code for a software component of a computer program to accept or discard information received by the software component within the computer program based on the filter criteria.

9. The system of claim 8, wherein the processor is included with a central processing unit.

15 10. The system of claim 8, wherein the computer program is a JavaTM virtual machine.

11. The system of claim 8, wherein the machine-language filter code is directly executable by the central processing unit.

20 12. The system of claim 11, wherein the machine-language filter code is a JavaTM class.

13. The system of claim 8, wherein the filter string is human readable.

25 14. The system of claim 13, wherein the filter string is formatted according to a conditional expression syntax.